

Section 7

1999 Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes

1993-1999 Alcohol and Other Drug-Related Fatal Crashes and Fatalities.....	7.2
1999 Alcohol and Other Drug-Related Crash Severity.	7.3
1999 Alcohol and Other Drug-Related Crashes by County.....	7.4
1999 Alcohol and Other Drug-Related Crash Times.....	7.5
1999 Impaired Drivers Involved in Alcohol and Other Drug-Related Crashes.....	7.8
1999 Alcohol and Other Drug-Related Crash Participants Injury Severity	7.9
1999 Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes.....	7.10
Driving Under the Influence Facts	7.11

TABLES

Table 7.01 Alcohol and Other Drug-Related Fatal Crashes and Fatalities, Utah 1993 - 1999
Table 7.02 Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes by County, Utah 1999
Table 7.03 Hour of Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999
Table 7.04 Month of Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999
Table 7.05 Day of Week for Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999
Table 7.06 Gender and Age of Impaired Drivers Involved in Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999
Table 7.07 DUI Arrests by County, Utah 1999
Table 7.08 DUI Arrests by Age, Utah 1999

FIGURES

Figure 7.01 Alcohol and Other Drug-Related Fatal Crashes, Utah 1993 - 1999
Figure 7.02 Severity of Alcohol and Other Drug-Related Crashes as Reported by Police, Utah 1999
Figure 7.03 Hour of Alcohol and Other Drug-Related Injury Crashes and Fatal Crashes, Utah 1999
Figure 7.04 Day of Week for Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999
Figure 7.05 Alcohol and Other Drug-Related Crash Participants Injury Severity as Reported by Police, Utah 1999
Figure 7.06 Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes, Utah 1999

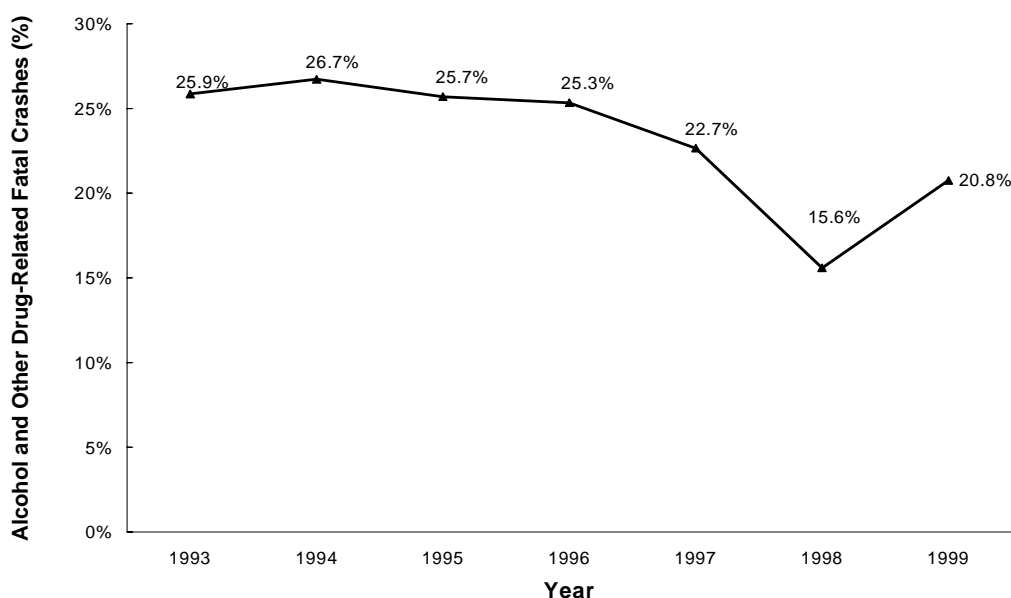
1993-1999 Alcohol and Other Drug-Related Fatal Crashes and Fatalities

For the past seven years, the percentage of alcohol and other drug-related fatal motor vehicle crashes and fatalities has slightly decreased from a high of 26.7% in 1994, to 20.8% in 1999. In 1998, the percentage dropped to an all time low of 15.6% (Table 7.01). In 1999 there was a 37.5% increase in fatal alcohol and other drug-related crashes and a 46.9% increase in alcohol and other drug-related crash fatalities from the previous year. Despite the recent increase, the reduction over the previous years may be due to several factors; including increased driving under the influence legislation and public education campaigns. Also in 1999, there was a decrease in frequency of alcohol and other drug testing conducted by law enforcement officers. Of the 435 drivers involved in fatal crashes, 202 (46.4%) were not tested for alcohol or other drugs; this is a 15% increase from 1998.

Table 7.01 Alcohol and Other Drug-Related (A/D) Fatal Crashes and Fatalities, Utah 1993 - 1999

Year	Fatal Crashes			Fatalities		
	Total Number	Number A/D	Percentage A/D	Total Number	Number A/D	Percentage A/D
1993	263	68	25.9%	303	74	24.4%
1994	303	81	26.7%	343	94	27.4%
1995	284	73	25.7%	325	84	25.8%
1996	292	74	25.3%	328	86	26.2%
1997	309	70	22.7%	366	88	24.0%
1998	308	48	15.6%	350	49	14.0%
1999	318	66	20.8%	360	72	20.0%

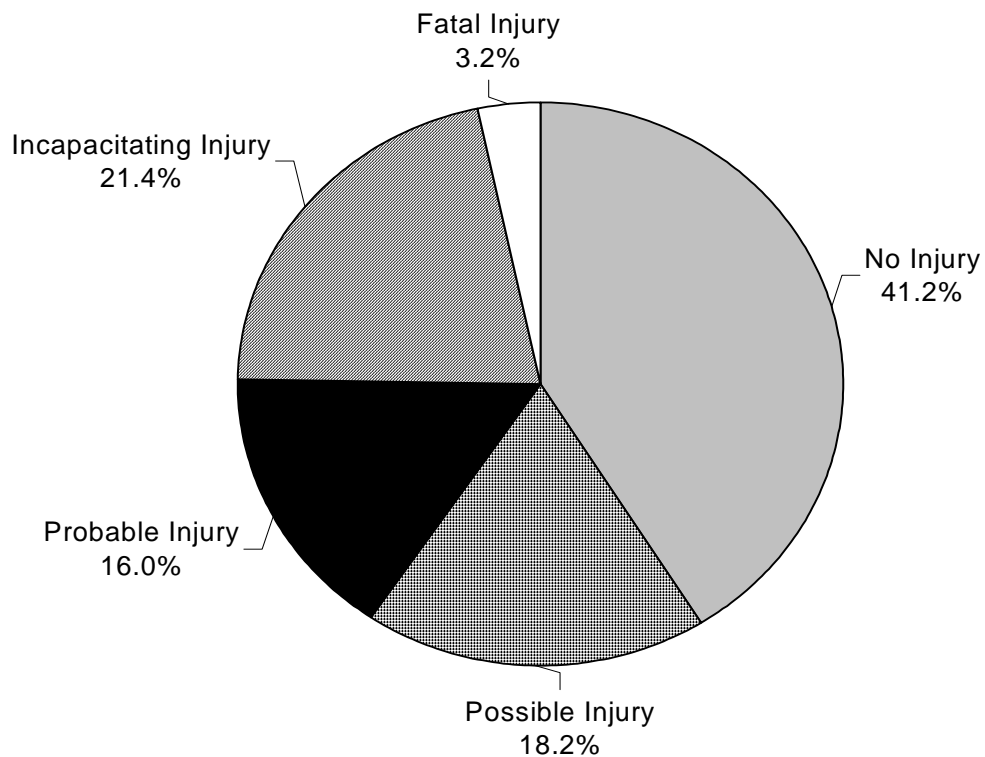
Figure 7.01 Alcohol and Other Drug-Related Fatal Crashes, Utah 1993 - 1999



1999 Alcohol and Other Drug-Related Crash Severity

Over half (58.8%) of alcohol and other drug-related crashes resulted in at least one injury compared to 37.6% of all motor vehicle crashes (Figure 7.02). The percentage of alcohol and drug-related crashes that resulted in a fatality was 3.2% compared to 0.6% of all motor vehicle crashes.

Figure 7.02 Severity of Alcohol and Other Drug-Related Crashes as Reported by Police, Utah 1999 (n=2,045)



1999 Alcohol and Other Drug-Related Crashes by County

Table 7.02 shows the number of alcohol and other drug-related crashes by county. The leading counties for total alcohol and other drug-related crashes and injury crashes per million vehicle miles traveled were Wayne, Duchesne, and Daggett. The highest rates for fatal alcohol and other drug-related crashes per miles traveled were in Wayne, and Carbon Counties.

Table 7.02 Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes by County, Utah 1999

County	A/D Total Crashes			A/D Injury Crashes			A/D Fatal Crashes		
	#	Rate per 10,000 Population	Rate per 100 MVMT	#	Rate per 10,000 Population	Rate per 100 MVMT	#	Rate per 10,000 Population	Rate per 1000 MVMT
Beaver	11	17.3	5.3	7	11.0	3.4	0	0.0	0.0
Box Elder	28	6.8	3.2	16	3.9	1.8	4	1.0	4.6
Cache	57	6.3	7.5	24	2.7	3.2	2	0.2	2.6
Carbon	24	10.8	6.9	13	5.9	3.8	4	1.8	11.6
Daggett	3	36.0	13.0	2	24.0	8.7	0	0.0	0.0
Davis	107	4.7	5.3	54	2.4	2.7	3	0.1	1.5
Duchesne	26	18.2	14.2	19	13.3	10.4	0	0.0	0.0
Emery	14	12.7	4.1	10	9.0	2.9	0	0.0	0.0
Garfield	9	19.4	6.8	6	12.9	4.6	1	2.2	7.6
Grand	18	18.1	6.5	11	11.1	4.0	1	1.0	3.6
Iron	34	10.7	6.2	20	6.3	3.6	0	0.0	0.0
Juab	11	14.0	3.3	4	5.1	1.2	1	1.3	3.0
Kane	7	9.9	5.6	5	7.0	4.0	1	1.4	8.0
Millard	29	23.2	7.1	17	13.6	4.1	3	2.4	7.3
Morgan	6	8.8	5.2	2	2.9	1.7	1	1.5	8.7
Piute	2	12.4	6.6	1	6.2	3.3	0	0.0	0.0
Rich	4	21.5	8.5	2	10.7	4.3	0	0.0	0.0
Salt Lake	933	11.0	13.0	529	6.2	7.3	25	0.3	3.5
San Juan	18	13.5	7.0	15	11.3	5.9	0	0.0	0.0
Sanpete	16	7.5	7.0	9	4.2	3.9	2	0.9	8.7
Sevier	20	10.6	5.3	9	4.8	2.4	2	1.1	5.3
Summit	44	17.2	7.5	23	9.0	3.9	4	1.6	6.8
Tooele	61	17.9	9.6	40	11.7	6.3	5	1.5	7.9
Uintah	31	12.7	11.4	18	7.3	6.6	1	0.4	3.7
Utah	253	7.6	8.6	122	3.7	4.2	2	0.1	0.7
Wasatch	29	21.3	12.0	13	9.5	5.4	2	1.5	8.3
Washington	59	7.4	7.1	35	4.4	4.2	0	0.0	0.0
Wayne	10	39.7	24.6	6	23.8	14.7	1	4.0	24.6
Weber	181	9.8	12.2	105	5.7	7.1	1	0.1	0.7
Statewide	2,045	9.7	9.4	1,137	5.4	5.2	66	0.3	3.0

1999 Alcohol and Other Drug-Related Crash Times

Total alcohol and other drug-related crashes and injury crashes followed the same time pattern, peaking during the late evening and early morning hours (9 p.m. to 1 a.m.). Fatal alcohol and other drug-related crashes followed a slightly different pattern; most of these crashes occurred in the evening with another peak at 1 a.m. (Table 7.03 and Figure 7.03).

Table 7.03 Hour of Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999

Hour	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
12 a.m.	156	7.6%	85	7.5%	4	6.1%
1 a.m.	151	7.4%	82	7.2%	5	7.6%
2 a.m.	104	5.1%	63	5.5%	2	3.0%
3 a.m.	55	2.7%	31	2.7%	1	1.5%
4 a.m.	49	2.4%	34	3.0%	2	3.0%
5 a.m.	42	2.1%	27	2.4%	3	4.5%
6 a.m.	37	1.8%	19	1.7%	2	3.0%
7 a.m.	34	1.7%	21	1.8%	1	1.5%
8 a.m.	34	1.7%	20	1.8%	0	0.0%
9 a.m.	26	1.3%	15	1.3%	1	1.5%
10 a.m.	28	1.4%	16	1.4%	0	0.0%
11 a.m.	33	1.6%	19	1.7%	3	4.5%
12 p.m.	44	2.2%	22	1.9%	1	1.5%
1 p.m.	56	2.7%	29	2.6%	4	6.1%
2 p.m.	64	3.1%	35	3.1%	2	3.0%
3 p.m.	92	4.5%	47	4.1%	1	1.5%
4 p.m.	90	4.4%	50	4.4%	0	0.0%
5 p.m.	112	5.5%	60	5.3%	6	9.1%
6 p.m.	117	5.7%	66	5.8%	4	6.1%
7 p.m.	137	6.7%	81	7.1%	2	3.0%
8 p.m.	125	6.1%	75	6.6%	5	7.6%
9 p.m.	159	7.8%	81	7.1%	5	7.6%
10 p.m.	155	7.6%	78	6.9%	8	12.1%
11 p.m.	145	7.1%	81	7.1%	4	6.1%
Grand Total	2,045	100.0%	1,137	100.0%	66	100.0%

Figure 7.03 Hour of Alcohol and Other Drug-Related (A/D) Injury Crashes and Fatal Crashes, Utah 1999 (See Table 7.03 for values)

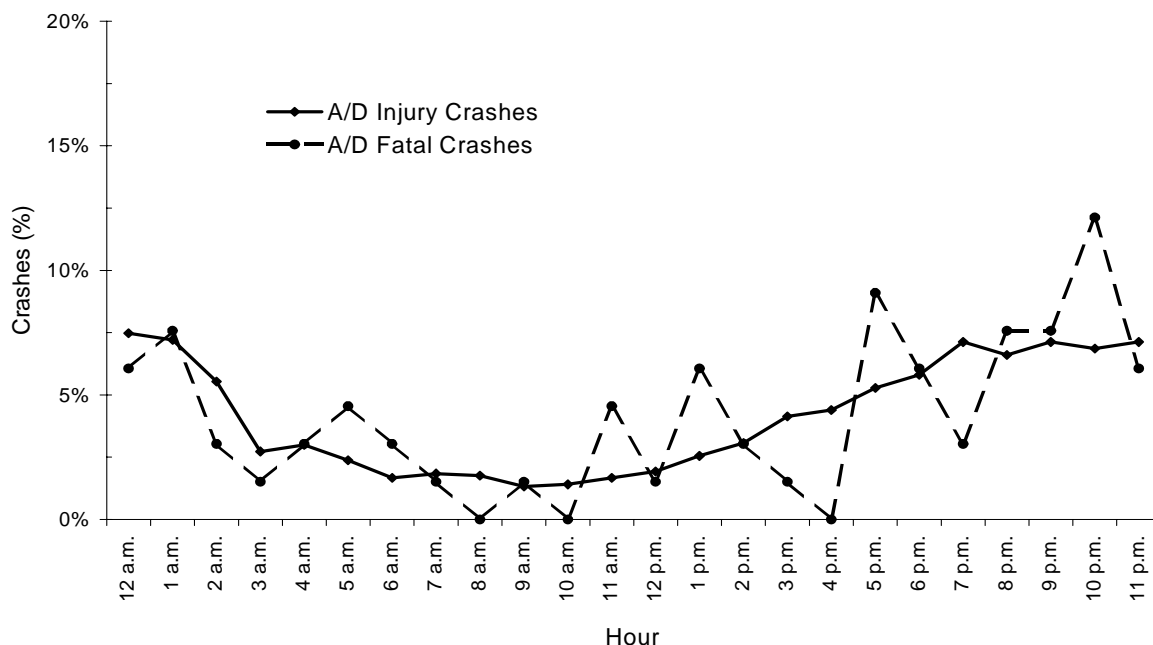


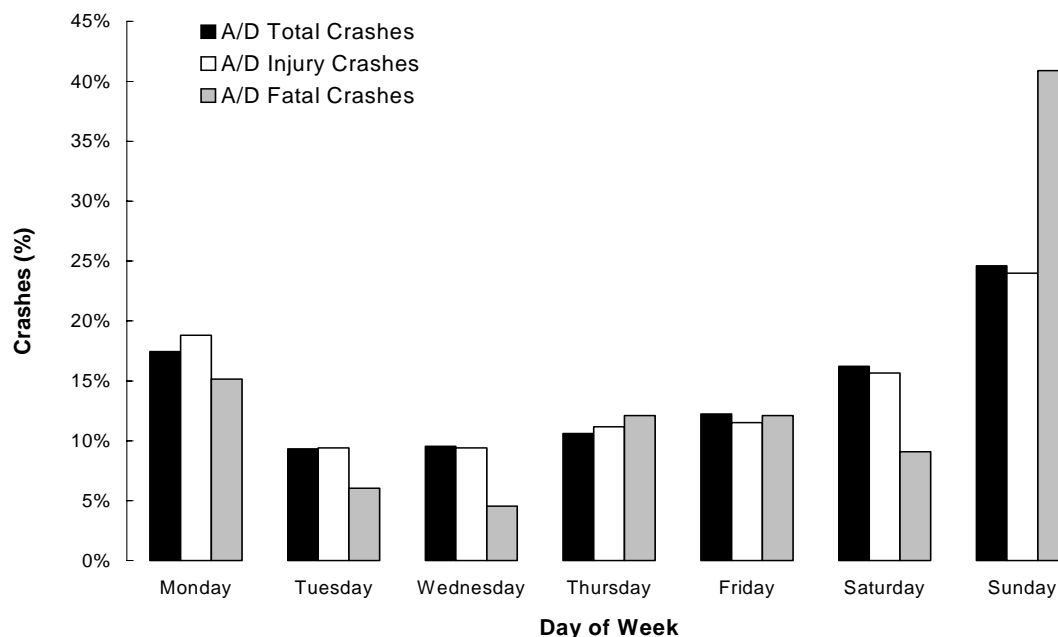
Table 7.04 shows the number and rate per day of alcohol and other drug-related crashes for each month. The rates remained similar from month to month. The highest percentage of total alcohol and other drug-related crashes, and injury crashes occurred in December. The highest percentage of fatal alcohol and other drug-related crashes occurred in July.

Table 7.04 Month of Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, Utah 1999

Month	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	141	4.55	77	2.48	3	0.10
February	133	4.75	73	2.61	4	0.14
March	144	4.65	80	2.58	6	0.19
April	162	5.40	86	2.87	5	0.17
May	184	5.94	107	3.45	2	0.06
June	186	6.20	109	3.63	5	0.17
July	176	5.68	91	2.94	14	0.45
August	181	5.84	97	3.13	9	0.29
September	191	6.37	110	3.67	3	0.10
October	175	5.65	92	2.97	5	0.16
November	159	5.30	94	3.13	5	0.17
December	213	6.87	121	3.90	5	0.16
Grand Total	2,045	5.60	1,137	3.12	66	0.18

Over half of the total alcohol and other drug-related total crashes (58.3%) and injury crashes (58.5%) occurred on Saturday, Sunday and Monday. For fatal alcohol and other drug-related crashes, more than half (56.1%) occurred on Sunday and Monday.

Figure 7.04 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999



Note: The above graph is based on percentages for the different crash categories. To read the above graph, look at one category across the days of the week. For example, look at only the white bars (i.e. alcohol and other drug-related injury crashes) from day to day. Do not compare the heights of the different crash categories for a specific day.

Table 7.05 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999

Day of Week	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
Monday	357	17.5%	214	18.8%	10	15.2%
Tuesday	191	9.3%	107	9.4%	4	6.1%
Wednesday	195	9.5%	107	9.4%	3	4.5%
Thursday	217	10.6%	127	11.2%	8	12.1%
Friday	250	12.2%	131	11.5%	8	12.1%
Saturday	332	16.2%	178	15.7%	6	9.1%
Sunday	503	24.6%	273	24.0%	27	40.9%
Grand Total	2,045	100.0%	1,137	100.0%	66	100.0%

1999 Impaired Drivers Involved in Alcohol and Other Drug-Related Crashes

Male drivers were involved in over three-quarters (80.4%) of alcohol and other drug-related crashes. The largest number of total alcohol and other drug-related total crashes and injury crashes involved male drivers in the age range of 20 to 24 years. The age group 30 to 34 years had the largest number of female drivers involved in total alcohol and other drug-related total crashes, and injury crashes. Male drivers aged 20 to 24 years represented the greatest number of drivers involved in fatal alcohol and other drug-related crashes. Of the impaired drivers, 288 (17.7%) were under the age of 21 years.

Table 7.06 Gender and Age of Impaired Drivers Involved in Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999

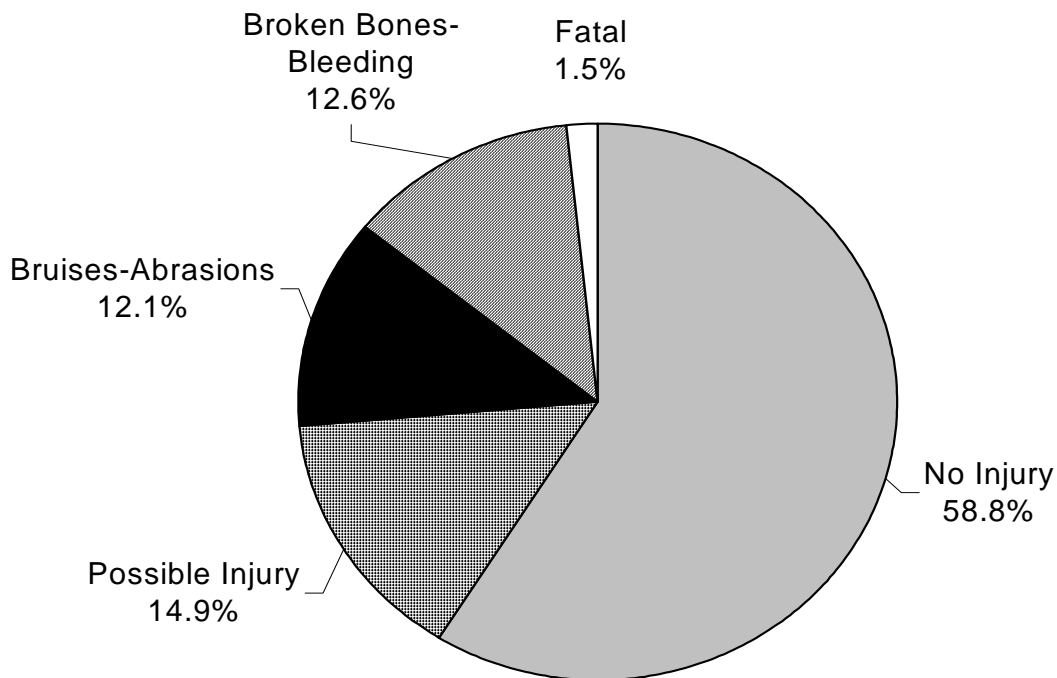
Age	A/D Total Crashes				A/D Injury Crashes				A/D Fatal Crashes			
	Male Drivers		Female Drivers		Male Drivers		Female Drivers		Male Drivers		Female Drivers	
	#	%	#	%	#	%	#	%	#	%	#	%
<15	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
15 - 19	165	10.1%	43	10.8%	89	9.8%	22	9.7%	5	9.8%	0	0.0%
20 - 24	385	23.6%	53	13.3%	211	23.2%	32	14.2%	12	23.5%	1	11.1%
25 - 29	254	15.6%	41	10.3%	138	15.1%	25	11.1%	7	13.7%	2	22.2%
30 - 34	193	11.8%	82	20.6%	114	12.5%	52	23.0%	7	13.7%	0	0.0%
35 - 39	212	13.0%	75	18.8%	136	14.9%	42	18.6%	6	11.8%	3	33.3%
40 - 44	165	10.1%	62	15.5%	93	10.2%	33	14.6%	7	13.7%	2	22.2%
45 - 49	93	5.7%	19	4.8%	47	5.2%	7	3.1%	1	2.0%	0	0.0%
50 - 54	61	3.7%	14	3.5%	29	3.2%	7	3.1%	3	5.9%	0	0.0%
55 - 59	46	2.8%	3	0.8%	24	2.6%	2	0.9%	1	2.0%	0	0.0%
60 - 64	18	1.1%	2	0.5%	14	1.5%	1	0.4%	1	2.0%	0	0.0%
65 - 69	8	0.5%	1	0.3%	2	0.2%	1	0.4%	0	0.0%	0	0.0%
70 - 74	4	0.2%	1	0.3%	0	0.0%	0	0.0%	1	2.0%	1	11.1%
75 - 79	5	0.3%	1	0.3%	1	0.1%	1	0.4%	0	0.0%	0	0.0%
80 - 84	2	0.1%	1	0.3%	1	0.1%	1	0.4%	0	0.0%	0	0.0%
85 +	1	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Missing	21	1.3%	1	0.3%	12	1.3%	0	0.0%	0	0.0%	0	0.0%
Grand Total	1,633	100.0%	399	100.0%	911	100.0%	226	100.0%	51	100.0%	9	100.0%

Note: There were alcohol and other drug-related crashes that involved two impaired drivers, and gender or age was missing for several of the impaired drivers. There were 6 alcohol or other drug impaired pedestrians involved in crashes. The information about the drivers involved in the alcohol or other drug impaired pedestrian crashes is not included in the above table.

1999 Alcohol and Other Drug-Related Crash Participants Injury Severity

Alcohol and other drug-related crash participants sustained a higher percentage of injury (41.2%) compared to 21.7% for all motor vehicle crash participants. In addition, a higher percentage of the alcohol and other drug-related crash participants died (1.5%), compared to all motor vehicle crash participants (0.3%).

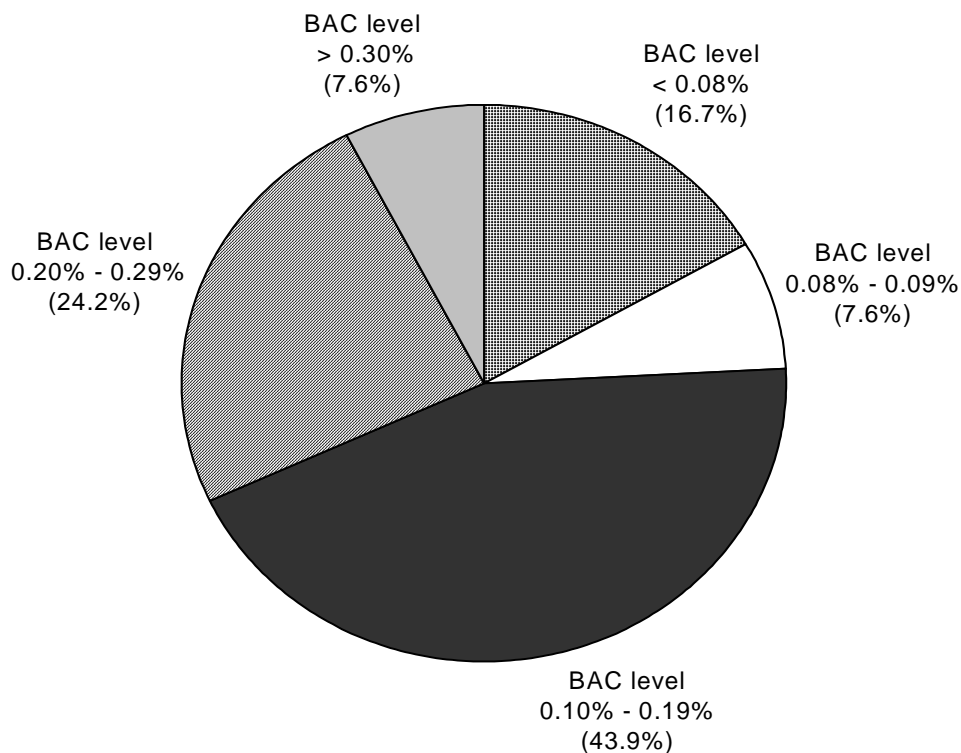
Figure 7.05 Alcohol and Other Drug-Related Crash Participants Injury Severity as Reported by Police, Utah 1999 (n=4,668)



1999 Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes

Figure 7.06 shows the blood alcohol concentration (BAC) levels of drivers involved in fatal alcohol-related crashes. The majority (83.3%) of drivers had blood alcohol levels at or above the legal limit of 0.08%. In fact, 7.6% of the fatal alcohol-related crashes involved a driver with a blood alcohol concentration level over 0.30%.

Figure 7.06 Blood Alcohol Concentration (BAC) Levels of Drivers Involved in Fatal Alcohol-Related Crashes, Utah 1999 (n=66)



Driving Under the Influence Facts

In the last 15 years, there have been 192,000 driving under the influence (DUI) arrests in Utah. DUI is driving (or in physical control of) a vehicle on a roadway in Utah with 0.08% or more alcohol in the blood, or "unsafe" driving due to alcohol or other drugs in the body. DUI is a Class B misdemeanor, punishable by \$1,000 fine, jail or community service, 90-day license suspension, an alcohol class, and alcohol problem assessment. More severe criminal actions are taken for DUI with a passenger under the age of 16 years, DUI with an injury or fatal crash, or DUI that is the second or more DUI offense within 6 years.

In 1999 there were 14,118 arrests for DUI in Utah (Table 7.07). Most of the DUI arrests (34.2%) occurred in Salt Lake County, followed by Utah (11.1%), Weber (10.5%) and Davis (10%) counties. The average blood alcohol concentration (BAC) of those arrested was 0.14%. The average fine for DUI convictions was \$1,100.

Table 7.07 DUI Arrests by County, Utah 1999

County	DUI Arrests	
	#	%
Salt Lake	4,832	34.2%
Utah	1,568	11.1%
Weber	1,482	10.5%
Davis	1,414	10.0%
Washington	507	3.6%
Summit	483	3.4%
Tooele	432	3.1%
Cache	411	2.9%
Other Counties	2,984	21.1%
Statewide	14,118	100.0%

Table 7.08 shows the number of DUI arrests by age. The largest percentage of those arrested were between the age of 25 to 36 years. For the under 21 years age group there is the "Not-a-drop" law which is zero alcohol tolerance for drivers under the age of 21 years. For teenagers between the ages of 13 to 18 years, there is the "Use-loose" law which suspends or postpones the teenagers' license for 6 or more months for the purchase, attempt-to-purchase, possession or use of alcohol or other drugs.

Table 7.08 DUI Arrests by Age, Utah 1999

Ages	DUI Arrests	
	#	%
15-20	1,272	9.0%
21-24	2,516	17.8%
25-36	5,088	36.0%
37-48	3,865	27.4%
49+	1,377	9.8%
Grand Total	14,118	100.0%